

Melbourne, Australia ATLAS Tier 2 Site Status Report

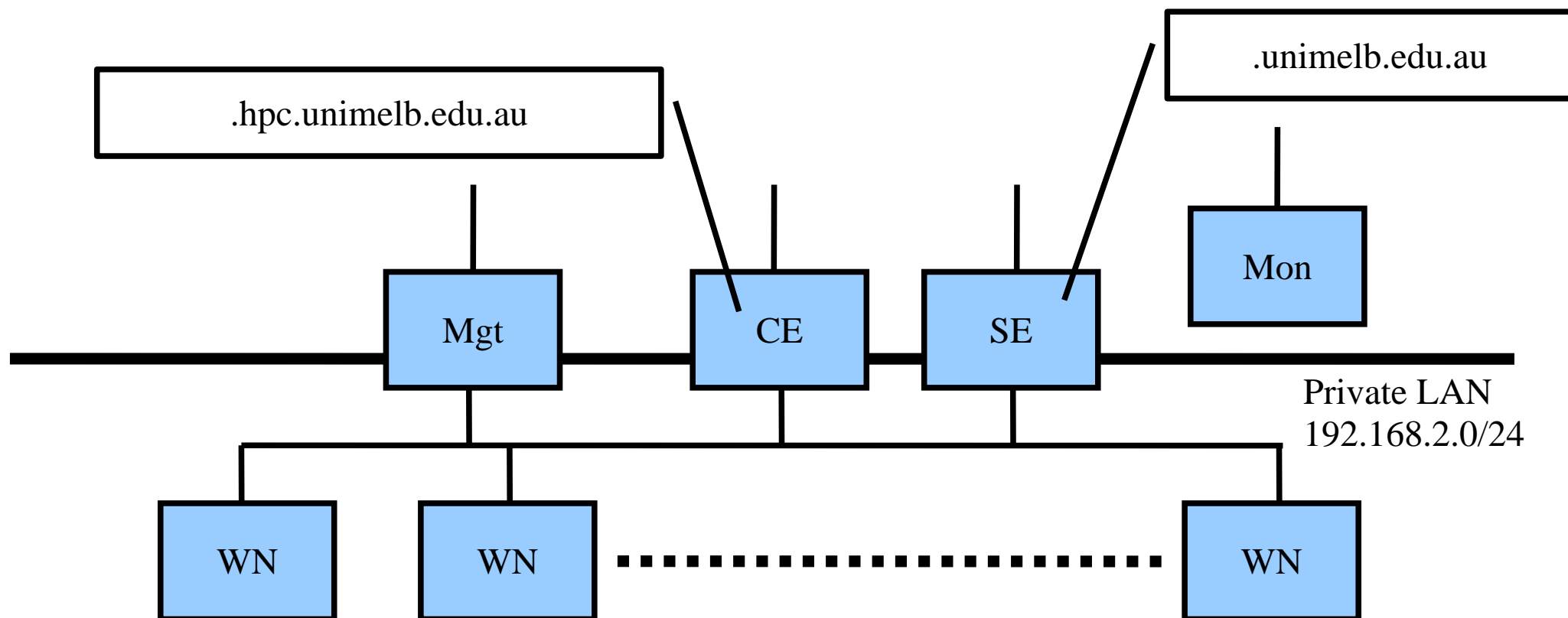
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Architecture

39 P4 2.4 CPUs (30 x 1GB RAM, 9 x 512MB RAM)

- Management Node
 - NFS (home directories, CA certificates), NIS, NAT, Torque 2.1.6 and Maui-3.2.6p16 (S. Traylen), Ganglia
- Compute Element
- DPM SE (1.7 TB, head node / disk server together 1 unit)
- R-GMA Mon Node



Virtual Organisation's



ATLAS and BIOMED VOs supported.

- Fairshare based scheduling.
- Torque node properties identify which nodes can run ATLAS jobs (those with 1GB RAM)

maui.cfg

----snip----

```
GROUPCFG[atlas] FSTARGET=5 PRIORITY=10
```

```
GROUPCFG[atlasprd] FSTARGET=100 PRIORITY=1000
```

```
GROUPCFG[atlassgm] FSTARGET=10 PRIORITY=10000 MAXPROC=2
```

----snip----

ATLAS: 16,000 jobs, 41563 hours, 63.43%

BIOMED: 761 jobs, 10778 hours, 94.79%

Networks

Need to sustain $> 160\text{Mbps}$ from Academia Sinica (.tw)
to University of Melbourne (.au)

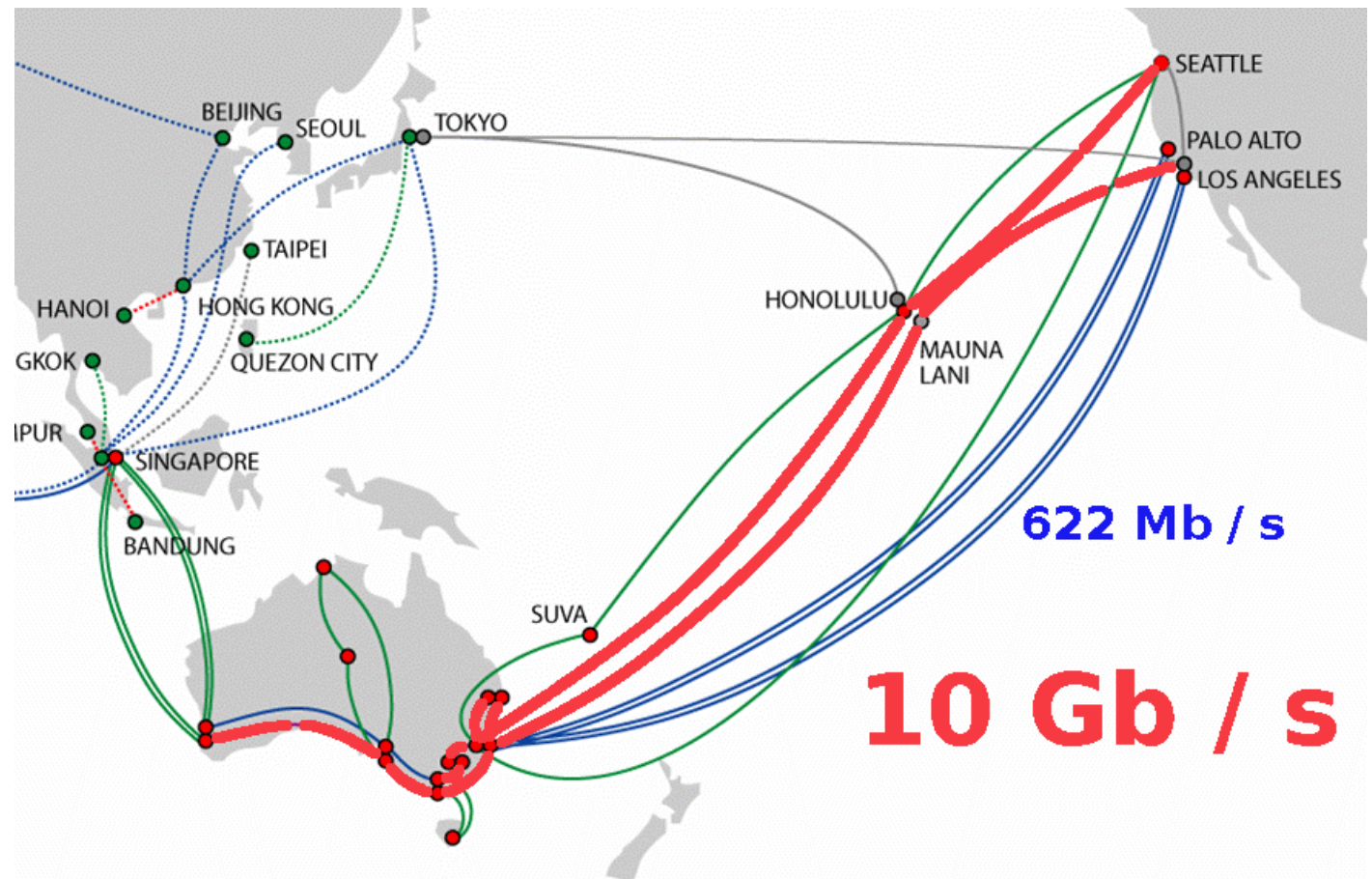
Currently, max throughput: $\sim 90\text{Mbps}$ (iperf)

15 MB/s recently (FTS) ...Min Tsai

Taiwan to Singapore
Limit reached

East coast
10Gbps

RTT (west): $\sim 140\text{ms}$
RTT (east): $\sim 250\text{ms}$



ATLAS



Installed Software:

VO-atlas-tier-T2

VO-atlas-cloud-TW

VO-atlas-release-11.0.5

VO-atlas-offline-12.0.1

VO-atlas-offline-12.0.2

VO-atlas-production-12.0.3

VO-atlas-production-12.0.31

How much disk space is required for ATLAS software?

What is the ATLAS Policy for software removal?

Where do I find the results of Athena validation tests?

How do I find out what's happening with ATLAS production?

General Issues



- Better integration b/w CIC portal and GOCDB
 - Why do I need to set a scheduled downtime in both?
 - GOCDB time is out by one hour for Melbourne, Australia timezone (we are in daylight savings ATM).
 - CIC portal times shown in localtime; auto-converted to UTC?
- ATLAS users and parallel threaded globus-url-copy (silent re-write or error message informing them of error).
- ATLAS jobs to upload data from site-SE to elsewhere – why?
- Job efficiency – at what point can jobs be killed?

General Issues



- Java and Australian CA Certificates.

Root CA cert 4096 bits

On the client:

`/usr/java/j2sdk1.4.2_12/jre/lib/security/java.security`

`security.provider.1=sun.security.provider.Sun`

`security.provider.2=org.bouncycastle.jce.provider.BouncyCastleProvider`

`security.provider.3=com.sun.net.ssl.internal.ssl.Provider`

`security.provider.4=com.sun.rsa.jca.Provider`

`security.provider.5=com.sun.crypto.provider.SunJCE`

`security.provider.6=sun.security.jgss.SunProvider`

Perhaps the Grid can upgrade to Java-1.5?

rgmasc SFT, edg-mkgridmap ... what else?

Looking Forward



- Funding secured for the next 5 years.
- Discussions with the University and APAC about support, hosting, contributions (people, CPU, disk).
- Tentative plan:
 - minor purchase March '07
 - major purchase June '07

Thankyou

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